	Application No.	Applicant(s)
Notice of Allowability	10/067,295	JINZAKI, AKIRA
	Examiner	Art Unit	
	Duc C. Ho	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the amendment filed 7-11-06*.

2. ☒ The allowed claim(s) is/are *1-5, 8, 11, 6-7, 9-10, 12-17, and 19-23. Renumbered 1-22, respectively*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☒ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *09-08-06* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

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EXAMINER 'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

J. Randall Beckers on 09-08-06.

The application has been amended as follows:

In the claims:

Claim 1 (currently amended).

An information processing device for performing broadcasting communications

to a plurality of receivers, comprising:

a processor;

a storage unit storing receiver information which comprises plural pieces of information

wherein each of the plural pieces is a piece of information about one receiver of the

plurality of the receivers;

an input/output bus; and

a transmission unit; and

the input/output bus provides connection among said transmission unit , the processor,

and the storage unit;

the processor provides the receiver information stored in the storage unit to the

transmission unit through the input/output bus; the transmission unit generates a packet

for **a specified receiver according to a transmission schedule including a**

transmission order and a transmission timing, and for each of the plurality of

receivers based on the receiver information and transmission data; and

the transmission unit transmits the packet to a connected network.

Claim 3, line 14, delete --- wherein ---.

Claim 6, line 8, change "trough" to --- through ---.

Claim 6, line 9, delete --- wherein ---.

Claim 6, line 17, delete --- wherein ---.

Claim 9, line 8, change "trough" to --- through ---.

Claim 9, line 9, delete --- wherein ---.

Claim 9, line 16, delete --- wherein ---.

Claim 9, line 20, delete --- wherein ---.

Claim 12, line 8, change "trough" to --- through ---.

Claim 12, line 9, delete --- wherein ---.

Claim 12, line 16, delete --- wherein ---.

Claim 12, line 19, delete --- wherein ---.

Claim 17, line 8, change "trough" to --- through ---.

Claim 17, line 9, delete --- wherein ---.

Claim 17, line 16, delete --- wherein ---.

Claim 18 is canceled.

Claim 19 (currently amended).

A network adapter provided in an information processing device which performs

broadcasting communications to a plurality of receivers, comprising:

a transmission schedule unit controlling a transmission schedule including a transmission

order and timing of a packet;

a receiver information management unit managing receiver information which is

provided by a processor of the information processing device and comprises plural pieces

of information, each of the plural pieces is a piece of information about one receiver of

the plurality of the receivers;

a buffer unit storing and managing transmission data;

a packet unit generating a packet for each of specified plural receivers based on

the receiver information and the transmission data according to the transmission

schedule, and transmitting the packet; and

a transmission data input unit obtaining transmission data without receiving

transmission data from a processor of said information processing device.

Claim 21 (currently amended).

A method for generating a packet by an information processing device on a

transmitter side for performing broadcasting communications to a plurality of receivers,

and transmitting the packet, comprising:

transferring receiver information to a network adapter in said information processing

device by a processor of the information processing device, the receiver information

comprises plural pieces of information and each of the plural pieces is a piece of

information about one receiver of the plurality of the receivers;

obtaining transmission data by the network adapter;

generating a packet for each of the plurality of receivers by the network adapter in said

information processing device based on the receiver information and the transmission

data;

transmitting the generated packet by the network adapter of said information processing

device;

holding the receiver information about the receiver in a format of packet header

information in advance; and dividing the information data into blocks, and holding

the blocks with management information corresponding each block and auxiliary

information for generation of a packet added to each block.

Claim 22, line 15, delete --- wherein ---.

Claim 23, line 14, delete --- wherein ---.

Reason for Allowance

2.   Regarding claims 1-2, the prior art fails to teach or suggest an information processing

device for performing broadcast communications to a plurality of receivers, comprising the

processor providing the receiver information stored in the storage unit to the transmission unit

through the input/output bus; the transmission unit generates a packet for a specified receiver

according to a transmission schedule including a transmission order and a transmission timing,

and for each of the plurality of receivers based on the receiver information and transmission data,

in combination with other limitations, as specified in the independent claims 1, and 15.

Regarding claims 3-4, 5-8, 11, the prior art fails to teach or suggest an information

processing device for performing broadcasting communications to each of a plurality of

receivers, comprising a transmission unit that comprises: a transmission schedule unit controlling

a transmission schedule including a transmission order and transmission timing of a packet; a

receiver information management unit managing the receiver information; a buffer unit storing

and managing the transmission data; and a packet unit generating a packet for a specified

receiver according to the transmission schedule, and transmitting the packet, in combination with

other limitations, as specified in the independent claims 3, and 6.

Regarding claims 9-10, the prior art fails to teach or suggest an information processing

device for performing broadcasting communications by a transmitter transmitting data to each of

a plurality of receivers using a processor provided on a transmitter side, comprising a

transmission unit that comprises: a transmission schedule unit controlling a transmission

schedule including a transmission order and transmission timing of a packet; a receiver

information management unit managing the receiver information; a buffer unit storing and

managing the transmission data; and a packet unit generating a packet for a specified receiver

according to the transmission schedule, and transmitting the packet; and each piece of the

receiver information contains information formed in a format of packet header information

required when the transmission data is to be transmitted tot a network; and each piece of the

receiver information contains change information for identification of a fixed portion and a

portion to be changed for each packet, in combination with other limitations, as specified in the

independent claim 9.

Regarding claims 12-16, the prior art fails to teach or suggest an information processing

device for performing broadcasting communications by a transmitter transmitting data to each of

a plurality of receivers using a processor provided on a transmitter side, comprising a

transmission unit that comprises: a transmission schedule unit controlling a transmission

schedule including a transmission order and transmission timing of a packet; a receiver

information management unit managing the receiver information; a buffer unit storing and

managing the transmission data; and a packet unit generating a packet for a specified receiver

according to the transmission schedule, and transmitting the packet; the buffer unit divides the

transmission data into transmission data blocks having a predetermined length, and manages the

transmission data block with the management information and the auxiliary information added to

the block, in combination with other limitations, as specified in the independent claim 12.

Regarding claims 17, and 20, the prior art fails to teach or suggest an information

processing device for performing broadcasting communications by a transmitter transmitting

data to each of a plurality of receivers using a processor provided on a transmitter side,

comprising a transmission unit that comprises: a transmission schedule unit controlling a

transmission schedule including a transmission order and transmission timing of a packet; a

receiver information management unit managing the receiver information; a buffer unit storing

and managing the transmission data; and a packet unit generating a packet for a specified

receiver according to the transmission schedule, and transmitting the packet; and the

transmission unit further comprises: a reception unit receiving a packet from a network; a

received packet identification unit identifying whether or not the packet received by the

reception unit can be processed by the transmission unit; and a received packet processing unit

processing the packet determined as processable by the received packet identification unit; and

transferring the packet determined as unprocessable to the processor of the information

processing device, in combination with other limitations, as specified in the independent claims

17, and 20.

Regarding claim 19, the prior art fails to teach or suggest a network adapter provided in an information processing device which performs broadcasting communications to a plurality of receivers, comprising a packet generating unit generating a packet for each of specified plural receivers based on the receiver information and the transmission data according to the transmission schedule, and transmitting the packet; a transmission data input unit obtaining transmission data without receiving transmission data from a processor of the information processing device, in combination with other limitations, as specified in the independent claim 19.

Regarding claims 21, and 23, the prior art fails to teach or suggest a method for generating a packet by an information processing device on a transmitter side for performing broadcasting communications to a plurality of receivers, and transmitting the packet, comprising generating a packet for each of the plurality of receivers by the network adapter in said information processing device based on the receiver information and the transmission data; and holding the receiver information about the receiver in a format of packet header information in advance; and dividing the information data into blocks, and holding the blocks with management information corresponding each block and auxiliary information for generation of a packet added to each block, in combination with other limitations, as specified in the independent claims 21, and 23.

Regarding claim 22, the prior art fails to teach or suggest a method for generating a packet by an information processing device on a transmitter side for performing broadcasting communications to a plurality of receivers, and transmitting the packet, comprising generating a packet for each of the plurality of receivers by the network adapter in the information processing device based on the receiver information and the transmission data; and the network adapter of the information processing device generates and transmits a packet for a specified receiver according to a transmission schedule including a transmission order and timing of the packet, in combination with other limitations, as specified in the independent claim 22.

3.   Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5.   Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

Duc Ho

09-12-06